

Durasound Modular

Impact Resistant Sound Absorbing Enclosures

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Durasound Modular is designed to provide sound enclosures for use throughout the construction industry for mainly industrial application. The panels are suitable for use as tough, functional wall and ceiling panelling with male female slip joints enabling quick and simple construction with the flexibility of being able to extend into multiple enclosures if necessary. The panels are designed to absorb airborne noise therefore reducing noise transmission, and to reduce reverberation within a room providing an ideal solution for sound enclosures around plant machinery and other noise sources.

Panels are compliant with Building Regulations Class A sound absorbtion and Class A1 spread of flame.

Key Features

- Class A sound absorber
- Acoustically insulated doors

Applications

- Plant rooms
- Sound absorbtion enclosures
- Plant machinery capsules

Optional integral acoustic louvres

Versatile modular design

- Sound absorbing screens
- Multi-use buildings
- Compressor housings

The Panels

Panels are manufactured from galvanised perforated steel with a sound absorbing mineral fibre infill, and a sheet steel back panel. Panels are interfaced with a male female slip joint that provides simple construction and a continuum of sound absorbing performance throughout.

Modular panels are available in three standard widths, two standard heights and two standard thicknesses, providing significant flexibility for application.

The Core

The core is a high performance, non-combustible bonded mineral fibre which provides impressive levels of sound absorption, as well as excellent fire resistance and insulation. The core is water and moisture repellant, free of (H) CFCs, fully recyclable, rot proof and virtually eliminates the growth of fungi, mould or bacteria.

Facing / Finishes

Durasound modular panels are finished to one face with galvanised perforated steel and solid sheet steel facing to the other, both can be powder coated or painted to any British Standard or RAL colour to order. External faces are also available with a HP200 external weather proof finish.

Modular Design

Panels are assembled in a channel base and build progressively with slip joints between panels. Pre-formed corners provide added structural stability, and a capping channel applied to the top of the panels, then provides a threshold for the application of ceiling panels.

For walk in enclosures a variety of acoustically insulated doors are available, as well as silenced ventilation options. The modular design of the enclosures allow a wide variety of sizes to be constructed with different panel combinations, and specially designed joining sections allow for adjoining enclosures to be created if necessary. Where the addition of acoustic flooring is required this may be selected from our Serena range.

Technical Drawings



1100mm

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- Integrates with optional acoustic door
- Optional integral acoustic louvres Joining sections for adjoining enclosures
- Optional acoustic flooring

Puracoustic®

550mm



Panel Dimensions and Weight

	Nominal Thickness (mm)	Length (mm)	Width (mm)	Max Ceiling Span (mm)	Weight (kg/m²)
550 panels	50		550		
	100				
1000 panels	50		1000		
	100	2450		4000	50mm=14.1
1100 panels	50		1100		100mm=19.6
	100				
Preformed Corners	50		50 internally 100 externally	N/A	
	100		50 internally 150 externally	N/A	

Please contact us should you require different sizes or thicknesses.

Durasound Acoustic Door Dimensions and Weight

	Nominal Thickness (mm)	Clear Opening Height (mm)	Clear Opening Width (mm)	Weight (kg/m²)
Acoustic Doors	52mm	2000	910mm	45 leaf only

Please contact us should you require different specifications.

Acoustic Performance

	Thickness	Building	Sound Absorption Coefficient**					
(mm)	Regulations Absorber Classification*	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	
Durasound Modular	50	A	0.39	0.78	1.00	1.00	1.00	1.00
	100	A	0.60	1.00	1.00	1.00	1.00	1.00

*tested to BS EN ISO 11654-1997 **tested to BS EN ISO 354

Durasound Acoustic Doors

Durasound doors offer 35dB of acoustic attenuation with custom manufactured doorsets using four-sided frames and acoustic seals.

Doors leafs are manufactured with 1.2mm corrosion resistant Zintec/Aluzinc facing with a BS10A05 Goosewing Grey pre-primed steel finish that can be painted on site, or polyester powder coating from a standard colour range is also available. The core is a composite construction of plasterboard, mineral fibre and rubberised sheet.

Door frames are constructed with folded 1.6mm Zintec/Aluzinc and filled with plaster.

Please contact us should you require further information.

Flooring

Durasound enclosures can be finished with Serenafloor panels to maximise acoustic performance. Serenafoor is manufactured with a P5 moisture resistant TG4 chipboard panel and a bonded acoustic-resilient layer of felt.

Please contact us should you require further information or visit www.puracoustic.co.uk to download the technical specification.